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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/036,870	12/26/2001	Joseph Smallcomb	7042-4	5200
75	90 03/16/2006		EXAM	INER
Akerman, Senterfitt & Eidson, P.A.			NGUYEN, STEVEN H D	
Post Office Box West Palm Bea	3188 ch, FL 33402-3188		ART UNIT PAPER NUMBER	
.,	,		2665	
			DATE MAILED: 03/16/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	4
Office Asticus Communication	10/036,870	SMALLCOMB, JOSEPH	
Office Action Summary	Examiner	Art Unit	
	Steven HD Nguyen	2665	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a repty be ting will apply and will expire SIX (6) MONTHS from the application to become ABANDONE	N. mely filed the mailing date of this communication (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 04 J	anuary 2006.		
	s action is non-final.		
3) Since this application is in condition for allowa	nce except for formal matters, pro	osecution as to the merits	s is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims			
4) Claim(s) is/are pending in the application	on.		
4a) Of the above claim(s) is/are withdra			
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-15</u> are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10) The drawing(s) filed on 1/6/6/2 is/are: a) 2 acc		Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			21(d).
11)☐ The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	Action or form PTO-152	≥ .
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority document 	ts have been received.		
2. Certified copies of the priority document	ts have been received in Applicat	ion No	
Copies of the certified copies of the prio	rity documents have been receive	ed in this National Stage	
application from the International Burea	, , ,		
* See the attached detailed Office action for a list	of the certified copies not receive	ed.	
Attachment(s)	🗖		
Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)	

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-5 and 8-15, drawn to a method and system for timing recovery in OFDM by detecting a lack of a sync symbol then determining a phase or timing offset which used as input of demodulator for adjusting the symbol timing as set forth for Fig 5, classified in class 370, subclass 208.
 - II. Claim 6, drawn to a method for timing recovery in OFDM as set forth in Fig 6, classified in class 375, subclass 354.
 - III. Claim 7, drawn to a method for timing recovery in OFDM as set forth in Fig 7, classified in class 375, subclass 375.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I, II and III are directed to related a method for timing recovery in OFDM. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, Group I has a different process than Groups II and III such as detecting a lack of a sync symbol then determining a phase or timing offset which used as input of demodulator for adjusting the symbol timing as set forth at Fig. 5 and Group II has different process than Groups I and III as set forth at Fig. 6.

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3. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

- 4. Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.
- 5. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

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6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven HD Nguyen whose telephone number is (571) 272-3159. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Steven HD Nguyen Primary Examiner

Art Unit 2665

March 10, 2006